



TEACHING PLAN DEPARTMENT OF STATISTICS JULY 2022 - JUNE 2023





## Teaching Plan/ Lesson Plan Department of Statistics, Gargaon College Period: July.2022-June, 2023

Period of Semester	Semester	Tentative Date of Univ Exam (Natification of Dib. Univ.)	Name of the Faculty	Course Code: STAT-	Paper Name	Unit wise Title of the Topic	Number of Lectures (1 Hour per Lecture) Theory-TH Practical-P Seminar-S Group Discussion-GD Tutorial-TU Surprized Test-ST	Tools used for teaching Black Board-BB ICT Online Class-OC Google Meet-GM Google Classroom-GC
						Unit1-Statistical Methods	TH-10, P-1 TU-1, ST-1	BB, ICT, OC
			Dr. Ranjana	СІ	Descriptive Statistics	Unit2-Measures of Central Tendency	TH-20, P-4, S-1, TU-2, ST-1	BB, ICT, GC, OC
3			Gogoi			Unit3- Correlation, Regression	TH-10, P-8, S-1, TU-1	BB, ICT, GC, OC
July,22-December,22						Unit4- Index Numbers	TH-10, P-3, TU-1, ST-1	BB, ICT, GC
em			Dr. Bornali C2 Dutta	C2	Calculus	UnitI-Differential Calculus	TH-10, S-1, TU-2, ST-1	BB, GM,GC,
8	Sem-I					Unit2- Integral Calculus	TH-9, S-1, TU-2, ST-2	BB,OC,GM,GC
1-21						Unit3- Differential Equations	TH-9, S-1, TU-2, ST-1	BB,GM,GC,ICT
- Al						Unit4-Partial Differential Equations	TH6-, S-1, TU-1,ST-1	BB,GM,GC,ICT
5			Dr. Ranjana Gogoi	GEI	Statistical Methods	Unit1-Introduction	TH-10, TU-1, ST-1	BB, ICT, OC
						Unit2-Measures of Central Tendency	TH-16, P-4, S-1, TU-2	BB, ICT, GC, OC
						Unit3- Correlation, Regression	TH-16, P-7, S-1, TU-2	BB, ICT, GC, OC
						Unit4-Theory of Attributes	TH-8, P-1, TU-1, ST-1	BB, ICT, GC
	_					Unit1-Probability	TH-10, TU-1, ST-1	BB, ICT, OC
					Probability and	Unit2-Random Variables	TH-10, S-1, TU-2, ST-1	BB, ICT, GC, OC
- Bi			Dr. Ranjana	C3	Probability	Unit3-Mathematical Expectation	TH-10, S-1, TU-2, ST-1	BB, ICT, GC, OC
June,2			Gogoi		Distribution	Unit4-Probability Distributions	TH-15, P-15, TU-2	BB, ICT, GC
23-	Sem II		Dr. Bornali C4 Dutta			Unit1-Theory of Equations	TH-8L,TU-2,ST-2,S-1	BB, ICT, GC, OC
January,2023-June,2023	Se			C4	Algebra	Unit2- Algebra of Matrices	TH-6,TU-1,ST-1,S-1	BB, ICT, GC,GM
						Unit3-Determinants of Matrices	TH-14,TU-3,ST-2,S-1	BB, ICT, GC,GM
						Unit4-Rank of Matrix	TH-6,TU-1,ST-2,S-1	BB, ICT, GC,GM
						Unit1-Probability	TH-15, TU-2	BB, ICT, OC
			Dr. Ranjana	GE2	Introductory	Unit2-Random Variable, Math. Expectation	TH-10, S-1, TU-1, ST-1	BB, ICT, GC, OC

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			Gogoi		Probability	Unit3-Convergence in Probability	TH-10, TU-1, S-1, ST-1	BB, ICT, GC, OC
						Unit4-Probability Distribution	TH-15, P-12, TU-2, ST-1	BB, ICT, GC
						Unitl-Limit Laws	TH (TH) C (CT)	DD ICT CC CC
					Sampling Distributions	Chill Lunit Lunip	TH-6,TU-1,S-1,ST-1	BB, ICT, GC, OC
			Dr. Bornali	C5		Unit2-Introduction to Sampling Distribution	TH-8,TU-1,S-1,ST-1,P-7	BB, ICT, GC, OC, GM
			Dutta			Unit3-Exact Sampling Distribution	TH-6,TU-1,S-1,ST-1,P-3	BB, ICT, GC, OC
						Unit4-Exact Sampling Distribution	TH-6,TU-1,S-1,ST-1	BB, ICT, GC, OC
				C6	Survey Sampling & Indian Official Statistics	Unit1- Simple Random Sampling	TH-8, TU-1, P-4, S-1	BB, ICT, OC
022						Unit2-Stratified Random Sampling	TH-8, S-1, TU-1, P-3, ST-1	BB, ICT, GC, OC
1,2			Dr. Ranjana Gogoi			Unt3-Ratio & Regression Method of Estimation	TH-5, TU-1, S-1, GD-1, P-2	BB, ICT, GC, OC
abei	-					Unit4-Indian Official Statistics	TH-5, P-12, TU-1, ST-1	BB, ICT, GC
CCI	Ę		Dr. Bornali	C7	Mathematical Analysis	Real Analysis	TH-8,TU-1,ST-1	BB, ICT, GC, OC, GM
Ą	SEM III					Infinite Series	TH-8,TU-1,ST-1	BB, ICT, GC, OC
July,2022-December,2022						Review of limit	TH-4,TU-1,ST-1	BB, ICT, GC, OC, GM
			Dutta			Numerical Analysis	TH-6,TU-1,ST-1,S-1	BB, ICT, GC, OC, GM
In					Sample Survey	Unit1- Concept of Population and Sample	TH-5, TU-1, S-1, ST-1	BB, ICT, GC, OC
						Unit2-Bsic methods of sampling	TH-6, S-1, TU-2, P-1	BB, ICT, GC, OC
			Dr. Ranjana	GE3		Unt3-Staratified Random Sampling	TH-, TU-1, S-1	BB, ICT, GC, OC
			Gogoi			Unit4- Multistage, Multi phase sampling, NSSO, CSO etc.	TH-15, P-12, TU-2	BB, ICT, GC, OC
			Dr. Bornali		Statistical Inference	UnitI-Basic concepts of Estimation	TH-8,TU-1,S-1,ST-1	BB, ICT, GC, OC
ສ	SEM IV					Unit2-Methods of estimation	TH-4,TU-1,ST-1,P-4	BB, ICT, GC, OC
50			Dutta			Unit3-Principles of test of significance	TH-8,TU-1,ST-1,P-4	BB, ICT, GC, OC, GM
January,2023-June,2023						Unit4-Sequential Analysis	TH-6,TU-1,ST-1,P-3	BB, ICT, GC, OC
			C!			Unit1-Gauss Markov Set Up	TH-15, TU-2	BB, ICT, GC, OC
				C9	Linear Models	Unit2-Regression Analysis; SLRM, MLRM	TH-10, S-1, TU-1, ST-1	BB, ICT, GC, OC
			Dr. Ranjana	r. Ranjana		Unit3- Analysis of Variance	TH-10, TU-1, S-1, ST-1	BB, ICT, GC, OC
ann a			Gogoi			Unit4-Model Adequacy Checking	TH-15, P-12, TU-2	BB, ICT, GC, OC, GM
Jan						Unit1- Quality, Historical perspectives	TH-6, TU-2, GD-1	BB, ICT, GC, OC, GM
				C10	Statistical	Unit2- Control Chart	TH-10, S-1, TU-2, ST-1	BB, ICT, GC, OC, GM



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			Dr. Ranjana	-	Quality	Unit3- Acceptance Sampling Plan	TH-10, TU-1, S-1, ST-1	BB, ICT, GC, OC, GM
			Gogoi		Control	Unit4- Six Sigma Methodology	TH-10, P-12, TU-2, ST-1	BB, ICT, GC, OC, GM
						UnitI-Sampling distribution	TH-7,TU-2,ST-2,P-3	BB, ICT, GC, OC, GM
		Dr. Bornali Dutta	GE4	Basics of Statistical	Unit2-Test for the significance	TH-4,TU-1,ST-1,P-3	BB, ICT, GC, OC, GM	
					Unit3-Nonparametric test	TH-4,TU-1,ST-1,P-3	BB, ICT, GC, OC, GM	
					Inference	Unit4-Analysis of Variance	TH-7,TU-2,ST-2,P-4	BB, ICT, GC, OC, GM
						Unit1- Probability Distribution	TH-5,TU-1,ST-1	BB, ICT, GC, OC, GM
			Dr. Bornali	CII	Stochastic	Unit2- Markov Chains	TH-9,TU-2,ST-2,S-1,P-5	BB, ICT, GC, OC, GM
			Dutta		Processes &	Unit3- Poisson Process	TH-6,TU-1,ST-1,S-1,P-3	BB, ICT, GC, OC, GM
					Queuing Theory	Unit4- Queuing System	TH-6,TU-1,ST-1,GD-1,P-2	BB, ICT, GC, OC, GM
53	SEM V		Dr. Bornali Dutta	C12	Statistical Computing	Unit1-History and importance of C Operators and Expressions	TH-9,TU-2,ST-2,S-1	BB, ICT, GC, OC,GM
July,2022-December,2022					using C++	Unit2-Decision making and branching	TH-6,TU-1,ST-1,P-2	BB, ICT, GC, OC, GM
lber						Unit3-User defined functions	TH-6,TU-1,ST-1,P-3	BB, ICT, GC, OC, GM
cen						Unit4-Pointers	TH-6,TU-1,ST-1,GD-1,P-3	BB, ICT, GC, OC, GM
Å				DSE2	Time Series Analysis	Unit1-Introduction and Decomposition of Time Series	TH-6, TU-2	BB, ICT, GC, OC, GM
052						Unit2- Detrending, Seasonal Component	TH-8, S-1, TU-2, P-3	BB, ICT, GC, OC, GM
y.2			Dr. Ranjana			Unit3- Seasonal Component	TH-8, TU-1, S-1, P-5	BB, ICT, GC, OC, GM
Jul			Gogoi			Unit4-Random Component	TH-4, P-2, TU-1, ST-1	BB, ICT, GC, OC, GM
					Demography &	Unit1- Population Theories	TH-6, TU-2	BB, ICT, OC, GC, GM
			Dr. Ranjana Gogoi	DSE4	Vital Statistics	Unit2-Measurement of Mortality	TH-8, S-1, TU-2, P-4	BB, ICT, GC, OC, GM
						Unit3-Central Mortality Rate, Life Table	TH-8, TU-1, S-1, P-3	BB, ICT, GC, OC, GM
						Unit4-Measurement of Fertility, NRR, GRR	TH-8, P-12, TU-2, P-4	BB, ICT, GC, OC, GM
	SEM VI		Dr. Bornali Dutta Cl	C13		Unit1-Experimental Designs & Basic designs	TH-7,TU-2,ST-1,P-6	BB, ICT, GC, OC, GM
200					The second second	Unit2-Incomplete Block Designs	TH-4,TU-1,ST-1,P-1	BB, ICT, GC, OC
ary Ne.2					Design of	Unit3-Factorial Experiments	TH-7,TU-2,ST-1,P-2,S-1	BB, ICT, GC, OC
January,202 3-June,2023					Experiments	Unit4-Fractional Factorial Experiments	TH-6,TU-2,P-4,ST-2	BB, ICT, GC, OC, GM



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			Unit1-Bivariate Normal Distribution	TH-5,TU-1,ST-1,P-2	BB, ICT, GC, OC, GM
Dr. Bornali	C14	Multivariate	Unit2-Multivariate Normal Distribution & its properties	TH-6,TU-2,ST-2,P-3	BB, ICT, GC, OC, GM
Dutta		Analysis 7	Unit3-Application of Multivariate Analysis	TH-6,TU-2,P-3,S-1	BB, ICT, GC, OC, GM
		Nonparametric Methods	Unit4-Nonparametric tests	TH-6,TU-2,ST-2,P-4	BB, ICT, GC, OC, GM
			Unit1-Econometric Model, GLM	TH-8, TU-2, P-3	BB, ICT, OC, GM, GC
	DSE3	Econometrics	Unit2-Multicollinearity	TH-8, S-1, TU-2, P-2, ST-1	BB, ICT, GC, GM
Dr. Ranjana			Unit3-GLS, Autocorrelation	TH-8, TU-1, S-1, P-2, ST-1	BB, ICT, GC,GM
Gogoi			Unit4-Heteroscedasticity	TH-8, P-12, TU-2, P-1	BB, ICT, GC, OC, GM
		Project Work	Preparation of Questionnaire, Data Collection, Tabulation,		ICT,
Dr. Ranjana	DSE8		Analysis, Report Writing		Extensive Library Work,
Gogoi					Computational Software,
Dr. Bornali					MS Word, MS Excel etc.
Dutta					

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